PATENT COOPERATION TREATY

rom the ITERNATIONAL S	EARCHING AUTH	IORITY		PCT
see fo	rm PCT/ISA/220			TTEN OPINION OF THE DNAL SEARCHING AUTHORITY (PCT Rule 43 <i>bis</i> .1)
			Date of mailing (day/month/year)	see form PCT/ISA/210 (second sheet)
Applicant's or agent's see form PCT/IS			FOR FURTHE See paragraph 2 b	
International applica PCT/EP2004/008		International filing date (day/month/year)	Priority date (day/month/year) 04.08.2003
International Patent C08L23/04	Classification (IPC)	or both national classification	and IPC	
Applicant BOREALIS TEC	CHNOLOGY OY			
1. This opinio	n contains indica	ations relating to the fol	llowing items:	
☑ Box No.	I Basis of the	opinion		
☑ Box No.				
☐ Box No.	III Non-establis	shment of opinion with reg	gard to novelty, inve	ntive step and industrial applicability
☐ Box No.	IV Lack of unity	of invention		
Box No.	V Reasoned s applicability	tatement under Rule 43 <i>b</i> ; citations and explanation	is.1(a)(i) with regard as supporting such	d to novelty, inventive step or industrial statement
⊠ Box No.		uments cited		
⊠ Box No.		ects in the international ap		
⊠ Box No	VIII Certain obs	ervations on the internation	onal application	
2. FURTHER	ACTION			
written opir the applica Internation will not be	nion of the Internat nt chooses an Aut al Bureau under R so considered.	ional Preliminary Examini hority other than this one ule 66.1 <i>bis</i> (b) that written	to be the IPEA and opinions of this Inte	will usually be considered to be a "). However, this does not apply where the chosen IPEA has notifed the ernational Searching Authority
submit to to months fro	na IDEA a writtan i	anly together where ann	rontiate with amen	the IPEA, the applicant is invited to diments, before the expiration of three tion of 22 months from the priority date,
For further	options, see Form	PCT/ISA/220.		
3. For further	details, see notes	to Form PCT/ISA/220.		
l Nima and mailing	address of the ISA:		Authorized Office	16
Name and maning	2001033 OF BIG ISA.			· · · · · · · · · · · · · · · · · · ·

<u>g</u>))

European Patent Office - P.B. 5818 Patentlaan 2 NL-2280 HV Rijswijk - Pays Bas Tel. +31 70 340 - 2040 Tx: 31 651 epo nl Fax: +31 70 340 - 3016

Clemente Garcia, R

Telephone No. +31 70 340-2242



10/566775 IAP9 Rec'd PCT/PTO 31 JAN 2005! International application No.

WRITTEN OPINION OF THE INTERNATIONAL SEARCHING AUTHORITY

PCT/EP2004/008689

_	Box N	o. I Basis of the opinion
1.	With re	egard to the language, this opinion has been established on the basis of the international application in guage in which it was field, unless otherwise indicated under this item.
	la	is opinion has been established on the basis of a translation from the original language into the following nguage—, which is the language of a translation furnished for the purposes of international search nder Rules 12.3 and 23.1(b)).
2.	With reneces	egard to any nucleotide and/or amino acid sequence disclosed in the international application and sary to the claimed invention, this opinion has been established on the basis of:
	a. type	of material:
		a sequence listing
		table(s) related to the sequence listing
	b. forr	nat of material:
		in written format
		in computer readable form
	c. time	e of filing/furnishing:
		contained in the international application as filed.
		filed together with the international application in computer readable form.
		furnished subsequently to this Authority for the purposes of search.
3	t	n addition, in the case that more than one version or copy of a sequence listing and/or table relating theret has been filed or furnished, the required statements that the information in the subsequent or additional hopies is identical to that in the application as filed or does not go beyond the application as filed, as hoppropriate, were furnished.

4. Additional comments:

WRITTEN OPINION OF THE INTERNATIONAL SEARCHING AUTHORITY

International application No. PCT/EP2004/008689

	Box No. II P	riority			
		ing document has	not been	furnished:	
	⊠ co	py of the earlier ap	plication	whose pric	ority has been claimed (Rule 43bis.1 and 66.7(a)).
	□ tra	nslation of the ear	lier applic	ation who	se priority has been claimed (Rule 43bis.1 and 66.7(b)).
	Conseque neverthele	ently it has not beer	n possible ed on the	e to consid assumption	er the validity of the priority claim. This opinion has on that the relevant date is the claimed priority date.
<u>)</u>	hae heen	on has been estab found invalid (Rule indicated above is	s 43 <i>bis</i> .1	l and 64.1)	ty had been claimed due to the fact that the priority clain . Thus for the purposes of this opinion, the international ne relevant date.
١.	Additional obs	ervations, if neces	sary:		
	Box No. V	Reasoned statem	ent unde	r Bula 43	his 1/s/i/ with regard to novelty inventive step of
	industrial an	dicability: citation	ns and e	xplanation	bis.1(a)(i) with regard to novelty, inventive step or a supporting such statement
	industrial ap	olicability; citation	ns and e	xplanation	ns supporting such statement
1.	industrial ap Statement	olicability; citation	ns and e	xplanation	ns supporting such statement
١.	industrial ap	olicability; citation	ns and e	xplanation Claims	ns supporting such statement
١.	Statement	olicability; citation	Yes: No:	xplanation Claims Claims	ns supporting such statement
١.	Statement	olicability; citation	Yes: No: Yes:	xplanation Claims Claims Claims	1-12
1.	industrial ap Statement Novelty (N)	olicability; citation	Yes: No:	xplanation Claims Claims	ns supporting such statement
 .	industrial ap Statement Novelty (N)	olicability; citation	Yes: No: Yes: No: Yes:	Claims Claims Claims Claims Claims Claims	1-12
١.	industrial ap Statement Novelty (N) Inventive step	olicability; citation	Yes: No: Yes: No:	Claims Claims Claims Claims Claims	1-12
	Statement Novelty (N) Inventive step Industrial app	olicability; citation o (IS)	Yes: No: Yes: No: Yes:	Claims Claims Claims Claims Claims Claims	1-12
	Industrial ap Statement Novelty (N) Inventive step Industrial app Citations and	o (IS) dicability (IA) explanations	Yes: No: Yes: No: Yes:	Claims Claims Claims Claims Claims Claims	1-12
	Statement Novelty (N) Inventive step Industrial app	o (IS) dicability (IA) explanations	Yes: No: Yes: No: Yes:	Claims Claims Claims Claims Claims Claims	1-12
	Industrial ap Statement Novelty (N) Inventive step Industrial app Citations and	o (IS) dicability (IA) explanations	Yes: No: Yes: No: Yes: No:	Claims Claims Claims Claims Claims Claims Claims	1-12

and /or

2. Non-written disclosures (Rules 43bis.1 and 70.9)

see form 210

WRITTEN OPINION OF THE INTERNATIONAL SEARCHING AUTHORITY

International application No. PCT/EP2004/008689

Box No. VII Certain defects in the international application

The following defects in the form or contents of the international application have been noted:

see separate sheet

Box No. VIII Certain observations on the international application

The following observations on the clarity of the claims, description, and drawings or on the question whether the claims are fully supported by the description, are made:

see separate sheet

Item IV

WO-A-2004/022646 discloses films of high clarity made of a blend of a single-site polymerised polyethylene of density 0.910 to 0.940 g/cm³ and 0.5 to 20% of a HDPE of density greater of 0.940 g/cm³ (see [0102] and claims 1 and 12, 13, 18, 19).

Item V

Art. 33.2; Novelty

- 1. The claims are not novel. WO-A-92/07905 (D1) discloses the use of small amounts of HDPE homopolymer of density at least 950 kg/m³ as nucleating agent for semicrystalline ethylene/alpha-olefin copolymers of density of less than 940 kg/m³. The films obtained with this composition have haze of less than 40% and a gloss of greater than 35 (see claims 1-11; table VII; page 8, line 19 to page 9, line 30). The claims 1-12 are not novel. Dependent claim 7 is a product by process claim. The process features that define the product cannot as such render the claim novel. Only technical features related to the product can limit the claim.
- 2. **US-B-6346576 (D2)** discloses blends of high density polyethylene homopolymer of density 0.935-0.975 g/cm³ with ethylene/alpha-olefin prepared with a single site catalyst of density of 0.900 to 0.935 g/cm³. The blends are used to make films. Claims 10 and 11 are not novel over D2 (see claim 3).

Art. 33.3; Inventive step

The problem of improving crystallisation of polyethylene in order to increase clarity and gloss by adding HDPE into the blend as nucleating agent has already been solved in D1. Therefore, the claims do not involve an inventive step.

Item VII

Documents D1 and D2 should be acknowledged in the description and briefly discussed (Rule 5.1 a (II)).

Item VIII

WRITTEN OPINION OF THE INTERNATIONAL SEARCHING AUTHORITY (SEPARATE SHEET)

International application No.

PCT/EP2004/008689

Claim 7 is a product by process claim. This claim can only be novel and inventive if the technical features that characterise the product render the product as such novel and inventive.